

Tonight's Agenda

- 6:00 – 6:15 pm: Open House
- 6:15 – 6:35 pm: Presentation
- 6:35 – 7:00 pm: Table Discussions
- 7:00 – 7:30 pm: Questions
- 7:30 – 8:00 pm: Open House



PINNACLE PEAK WEST AREA DRAINAGE MASTER STUDY



**Rawhide Wash Community Meeting
May 11, 2015**

Tonight's Presentation

- Study Results
- Focus on Rawhide Wash
 - Options
- Discussion/Input
- Questions

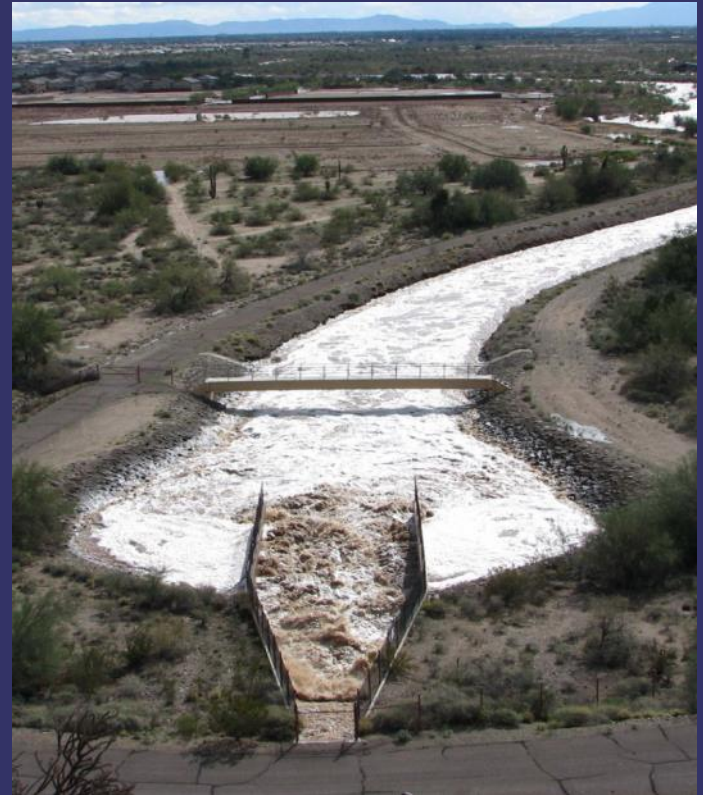


Flood Control District of Maricopa County

MISSION: Reduce county resident's risks of injury, death, and property damage due to flooding

Major Activities

- Floodplain & Watershed Studies
- Floodplain Regulation
- Flood Hazard Mitigation
 - Structural
 - Non-structural
- Operations & Maintenance
 - Dams, channels, levees, and basins



Study Goal: Reduce Flood Risk

1. Identify flood hazards
 - Water depths, locations, flow, and speed
2. Determine if the hazard poses a risk to buildings, vehicles and people
3. Develop options to reduce the high risk problems



Salt River: Avg Flow 1400 cfs



PPW ADMS Characteristics:

95 square miles

Jurisdiction

Scottsdale 46%

Phoenix 45%

Unincorporated 8%

Land Ownership

Private 48.7%

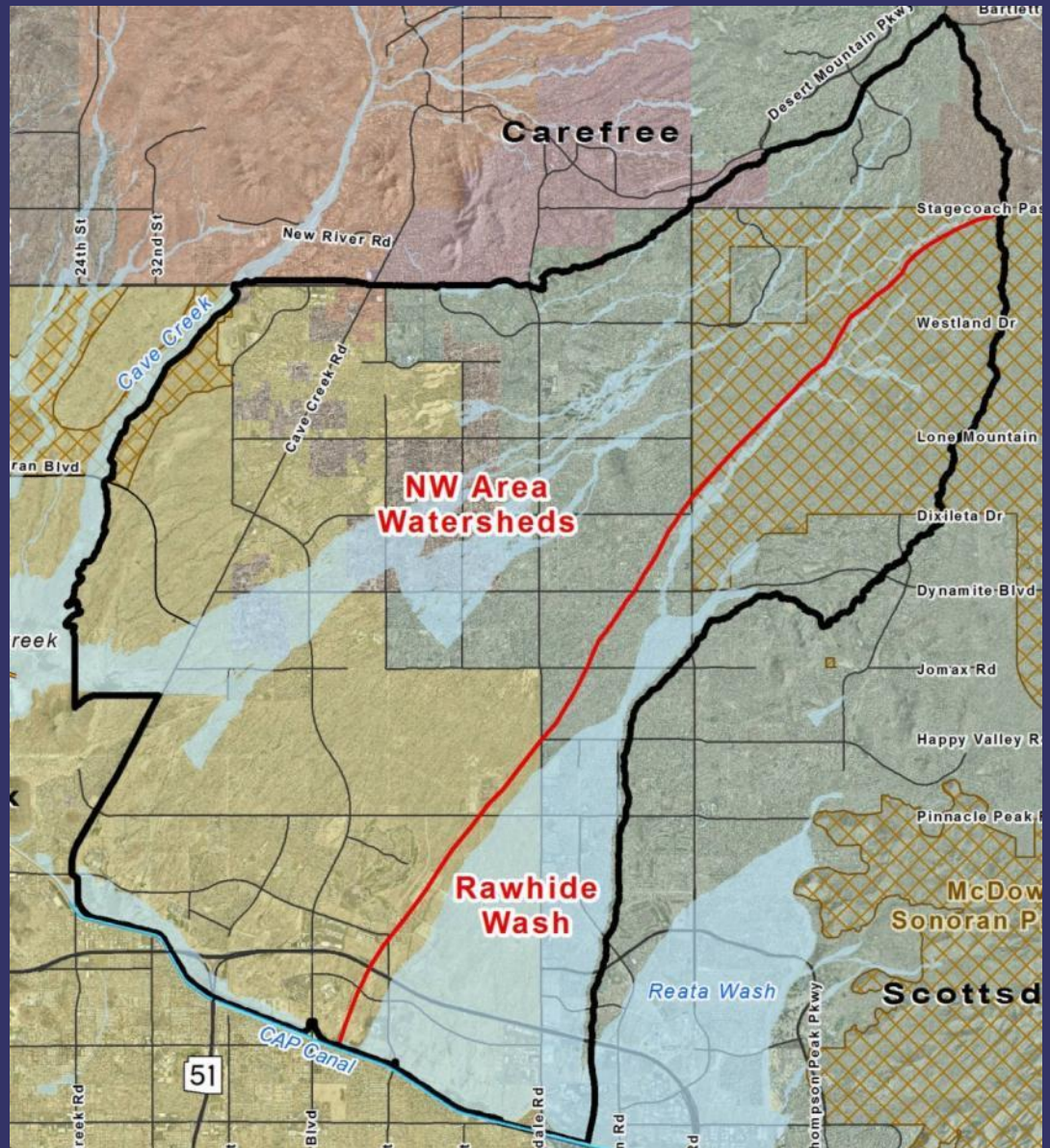
AZ State Land 41.4%

Federal 3.8%

Project Partners

Existing Floodplains

Two Focus Areas



Modeling Results

- Based on 4-5 inches of rain in 24 hours
 - 1% chance (i.e. 100 year storm)

Houses & Buildings

- Over 1900 at potential risk
 - 60% located outside of mapped floodplain
 - Over 230 will have 18 inches or higher of water on property



Transportation Hazards

- Based on depth & velocity
- 100-yr Storm (4-5" rain):
1 in 5 streets dangerous
or impassible
- 10-yr Storm (2.5-3" rain):
100 locations impassible



School/Pedestrian Risks

- Locations with deep and fast water that can knock people off their feet
- 575 locations identified
 - Washes
 - Near houses
 - Schools
- 10 schools may have limited access during large storms



Pedestrians Rescued from Indian Bend Wash - 2014



What Can You Do?

- Know your risk
 - View on computers in open-house
 - Website
- Consider buying flood insurance
- Structural fixes
- Floodproofing
- Landscaping, grading, and erosion protection

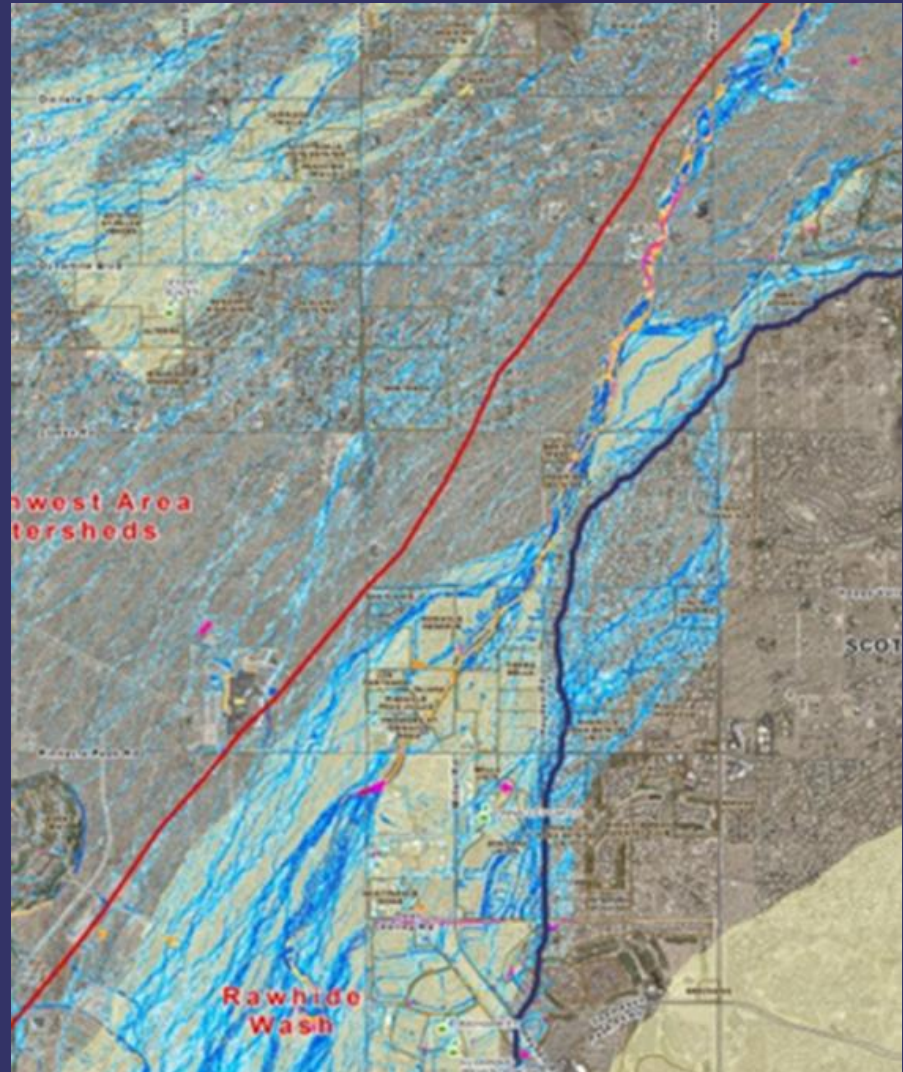




FOCUS AREA: Rawhide Wash

Rawhide Wash Specific Results

- Active Alluvial Fan Floodplain
- Approximately 4,000 properties in floodplain
 - Flood insurance required (mortgaged houses)
 - \$1.6 Million annually
- 500 houses & buildings at potential risk



Rawhide Wash Hazards:

High Flows

- 100-year Flow: 9,600 cubic feet per second (cfs)
 - Colorado River at Lee's Ferry
- Highest recorded flow: 440 cfs in September 2006
- Sediment



18-foot raft in Grand Canyon at ~ 10,000 cfs



Model Results

- Animation



Rawhide_System_100.mp4



Rawhide Wash

Hazards:

Wash is Unpredictable



3 Options for Discussion

Developed based on input received at last meeting and technical analysis

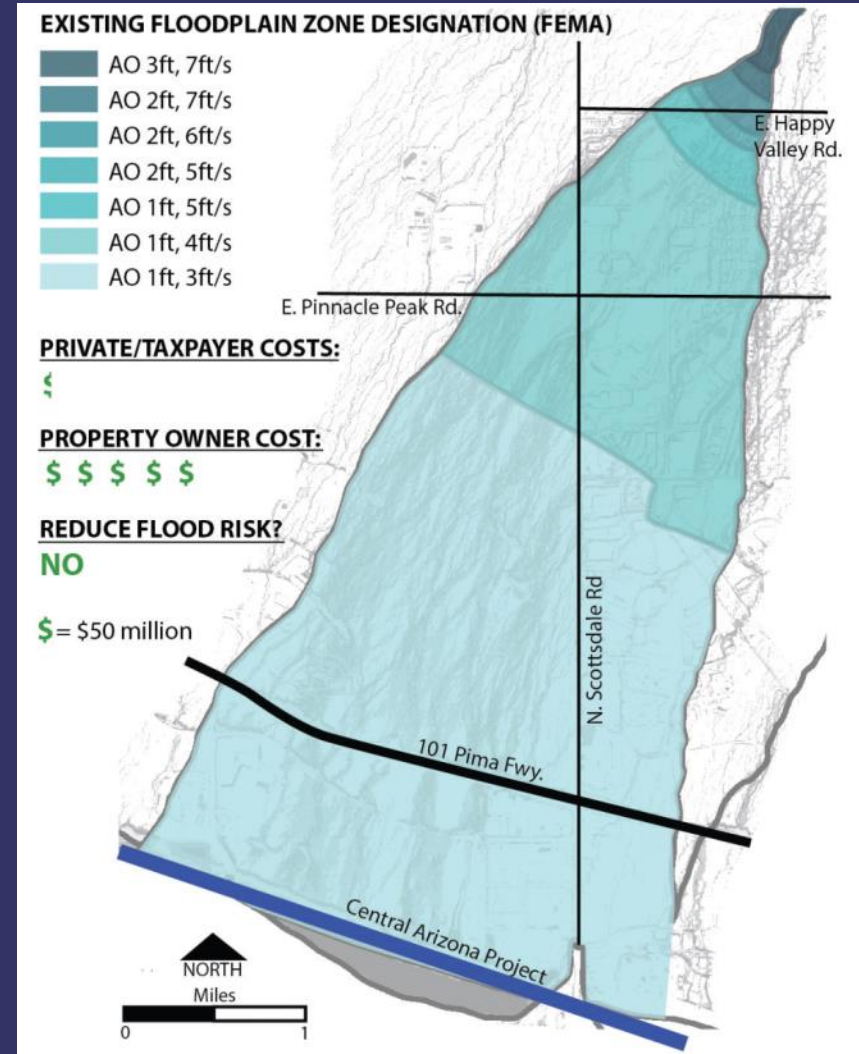
Fact Sheet available

1. No Action
2. No Build
3. Build



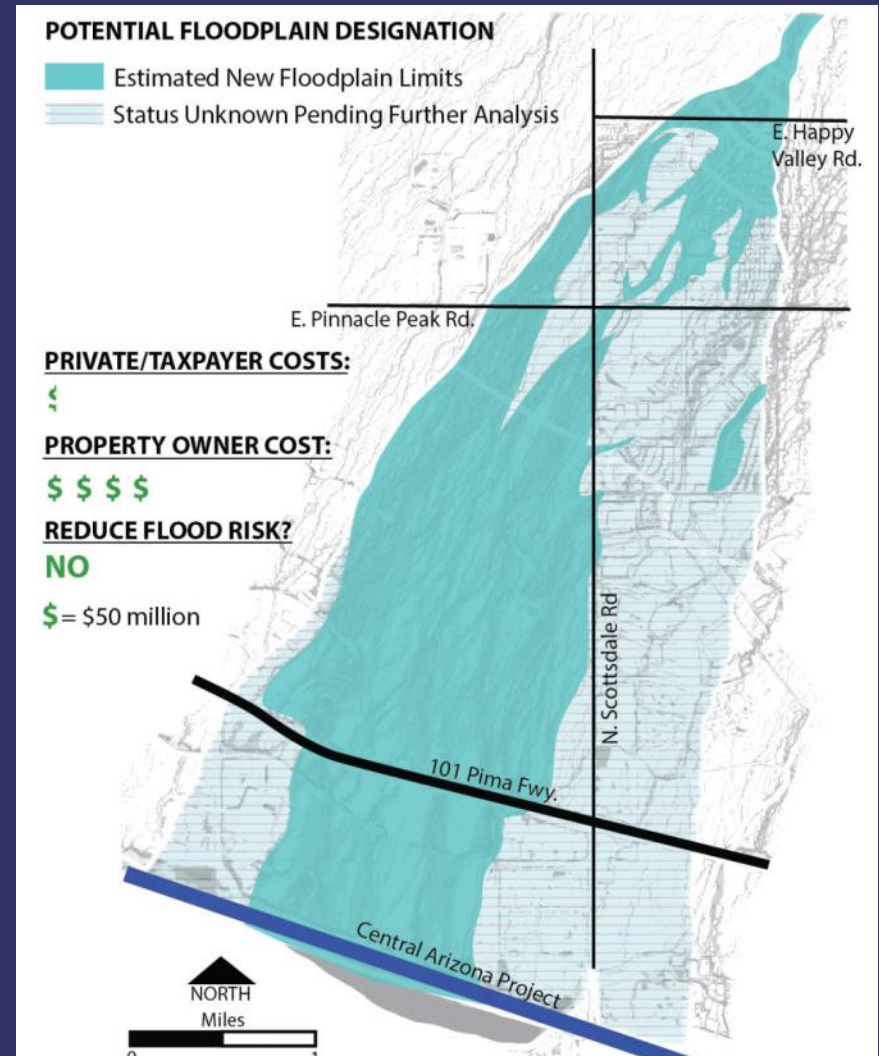
NO ACTION

- Nothing changes
 - Accept the risk
- 4,000 properties remain in floodplain
- 500 structures at potential risk
- High costs to Property Owners
 - Flood Insurance
 - Existing & Future
 - Development Costs



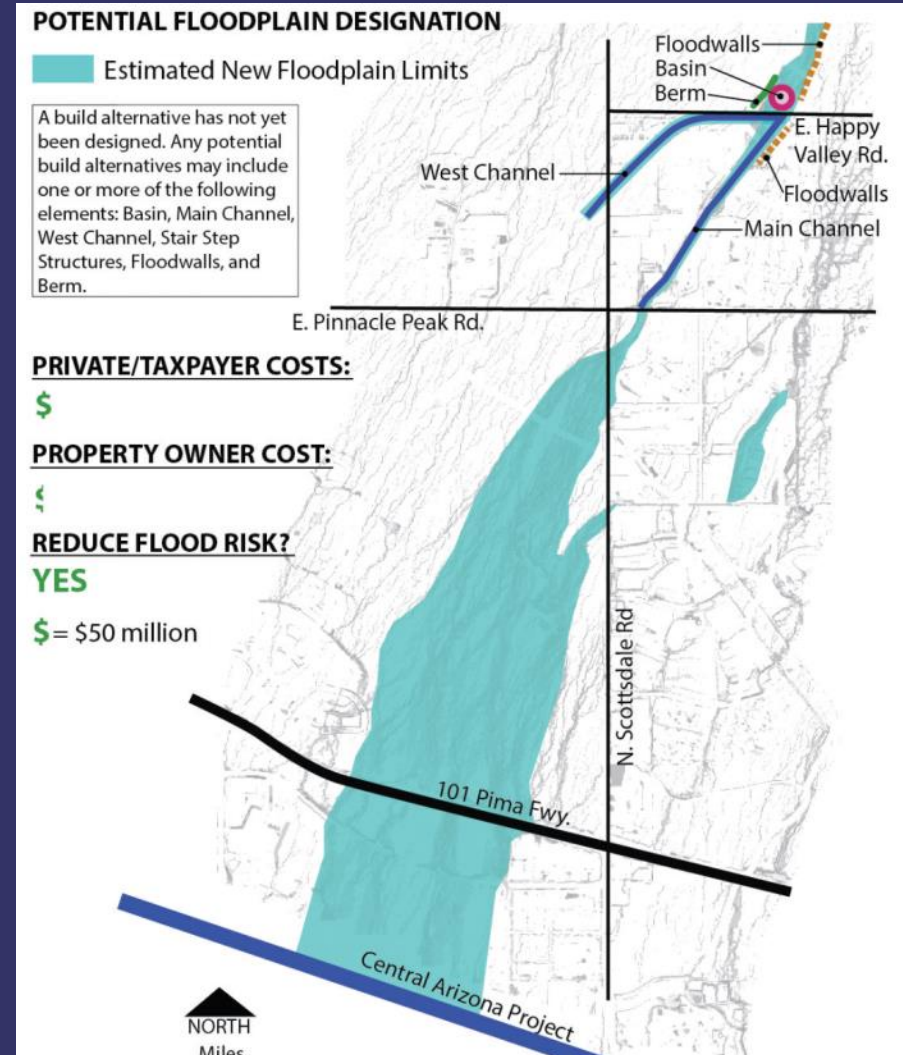
NO BUILD

- Remap floodplain
 - Pending FEMA approval
 - Not sure of outcome
 - Some properties will be outside of revised floodplain
- Risk remains same as today
- High costs to Property Owners
 - Flood Insurance
 - Existing & Future
 - Development Costs



BUILD

- Build structures to reduce the risk & size of floodplain
 - Addresses uncertainty
 - Levee, floodwalls, basin, and grade control structures
 - Floodplain would be remapped to remove floodplain for about 3,400 properties
- Moderate costs
 - Cities & County
 - Future Developers



What do you think?

- Help us identify additional pros and cons of the 3 options
- Table Exercise:
 - Use sticky note pad and markers
 - Post your comments under each option
 - Discuss with others at your table
 - Share with other participants



Next Steps:

- Review your comments on the 3 options
- Conduct further technical analysis
- In collaboration with partners, select an option for moving forward
- If build option is chosen, additional meetings will be held to discuss alternatives



QUESTIONS?

- Go to computer station to determine if your property is at risk
- See project team members to discuss issues specific to your property
- Complete your comment form



Open House: 7:30-8:00 pm

- Review results
 - Maps and Exhibits
 - Computer Stations
- General flooding information
 - Exhibits
 - Handouts
 - Cities of Phoenix and Scottsdale
- Provide Input
 - Flooding Resource Guide
 - General comments

